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# ARCHITECTS' & ENGINEERS' BUILT-UP ROOFING REFERENCE SERIES

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VOLUME I  
FLAT ROOF  
SPECIFICATIONS

PUBLISHED BY

The *Bennett* Company

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ARCHITECTS'  
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BUILT-UP ROOFING  
REFERENCE SERIES

VOLUME I

FLAT ROOF  
SPECIFICATIONS

PUBLISHED BY

The *Barrett* Company

40 Rector Street, New York, N. Y.

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# SERVICE



HIS book contains complete specifications and detailed drawings of Built-Up Roofings for flat roof decks.

It is the first of a series, which treats with the following subjects:

VOLUME I—FLAT ROOF SPECIFICATIONS

VOLUME II—STEEP ROOF SPECIFICATIONS

VOLUME III—ROOF FLASHING SYSTEM

VOLUME IV—ROOF DRAINAGE SYSTEM

VOLUME V—DAMP-PROOFING AND  
WATER-PROOFING

The data given in the Reference Series comprises the most practical methods and procedure based on nearly three-quarters of a century's experience and practice in the field.

For the unusual roofing or water-proofing problems, we maintain a Construction Service Department distinct from our sales organization—their services for consultation are at your disposal at any time.

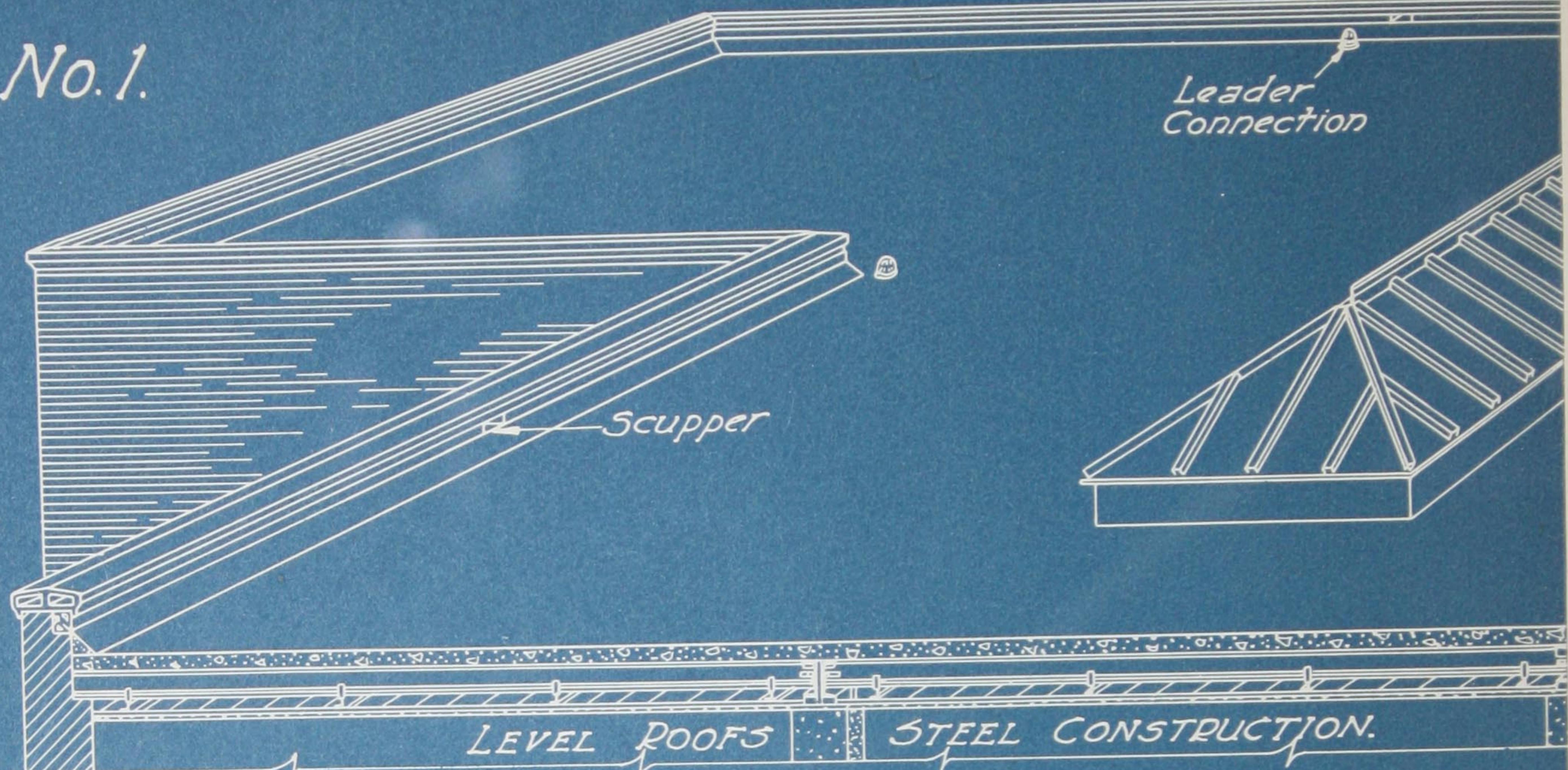
The *Barrett* Company

# PLATE I

## THE TRUE LEVEL ROOF (1) COMPARED WITH

Note the absence of costly construction detail, especially in flashings & Water-sheds, in the "true" level roof construction."

No. 1.

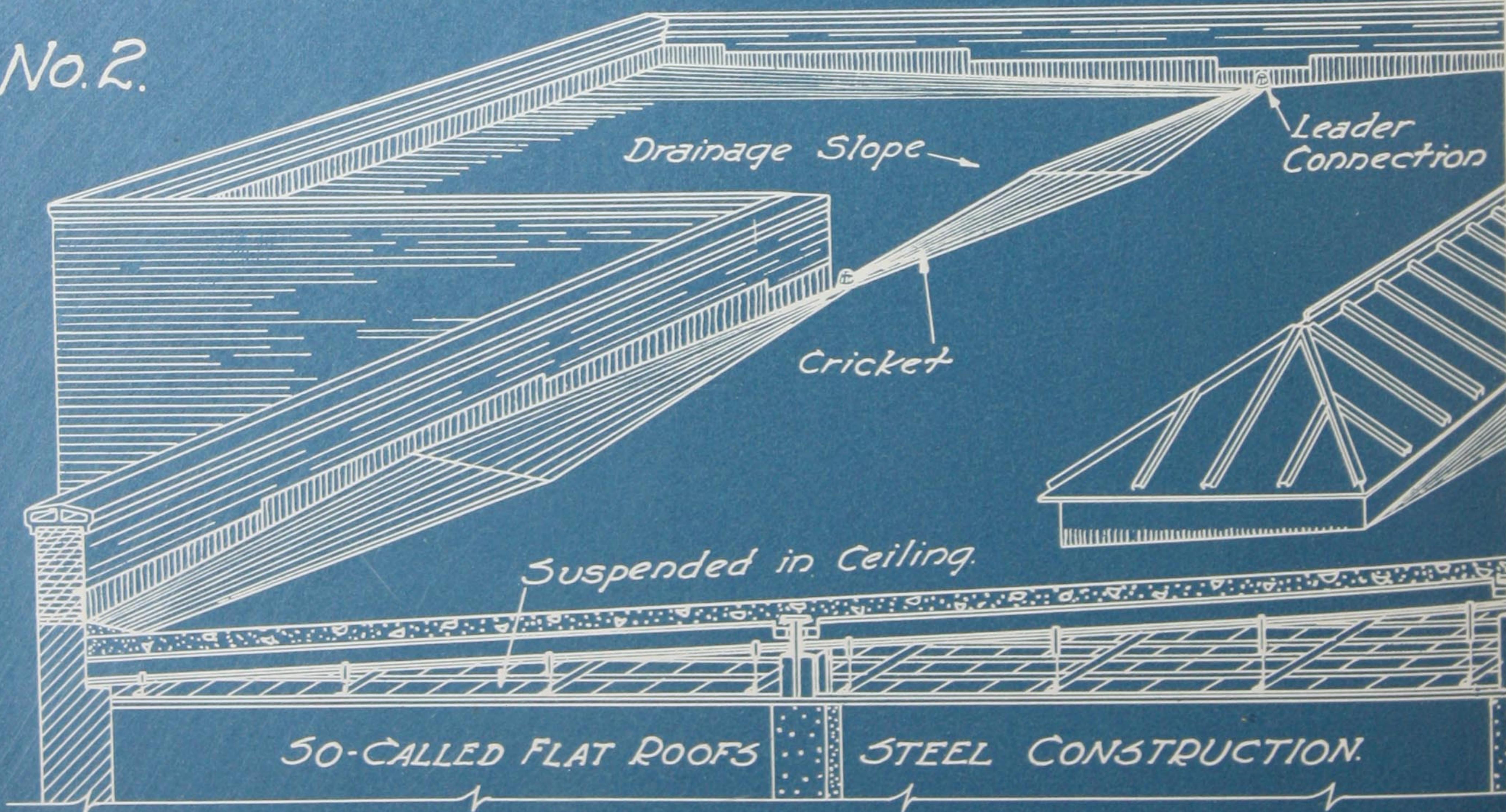


### SAVINGS STEEL CONSTRUCTION.

- 1- Elimination of all crickets & fills for all drainage slopes.
- 2- Elimination of stepped flashings. This means lower parapet walls as flashing can be set in horizontal line & a material saving of labor effected.
- 3- Elimination of hung ceilings necessary to obtain level ceilings. This means a saving on length & therefore size of the columns.
- 4- Smaller drainage outlets for same roof areas.
- 5- Drainage outlets are not limited to any particular location by roof slopes thus permitting minimum installation expense.

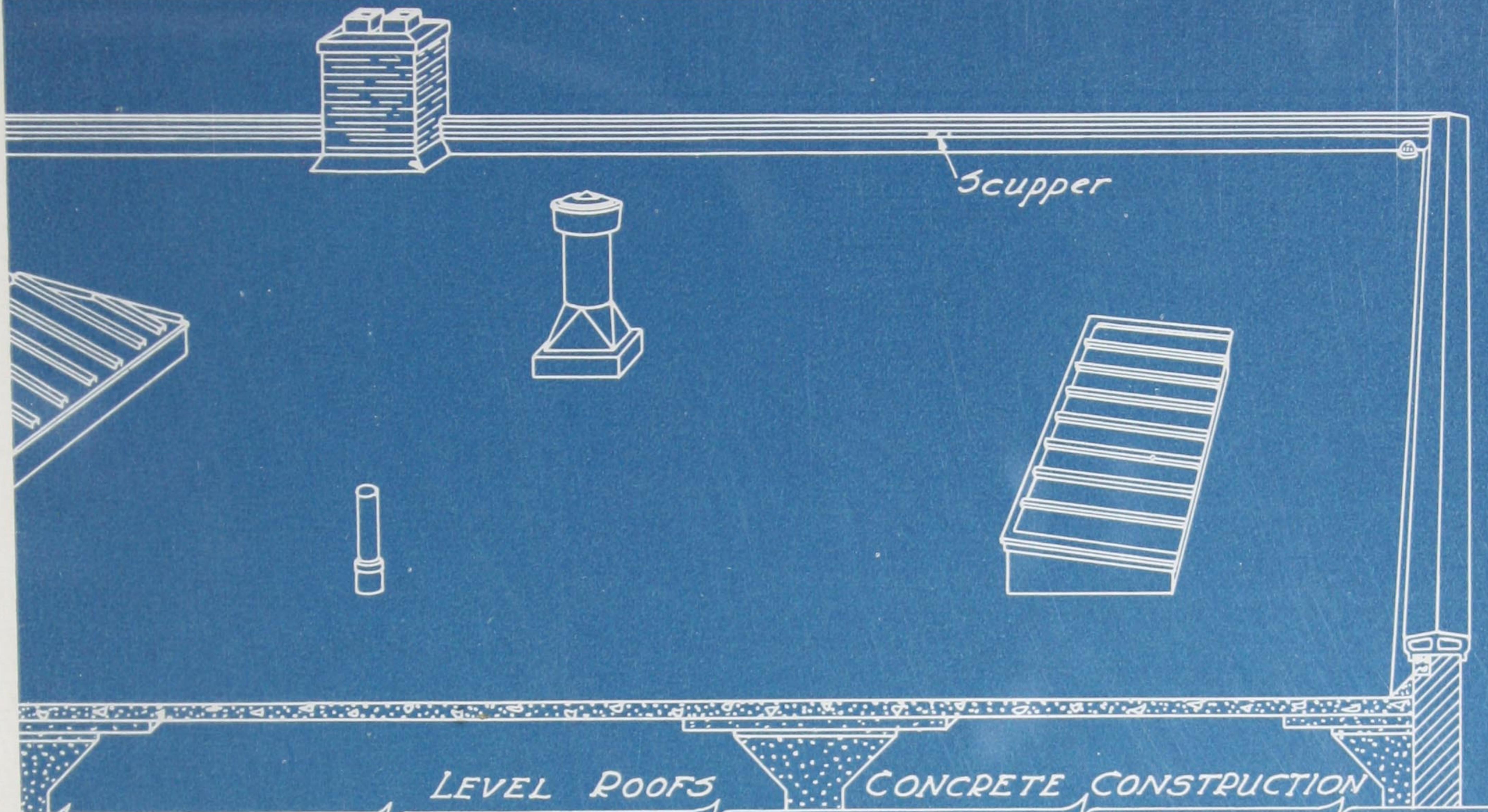
The parts shown shaded on the perspective below are those which are eliminated by the use of level roof construction.

No. 2.



# PLATE I-A

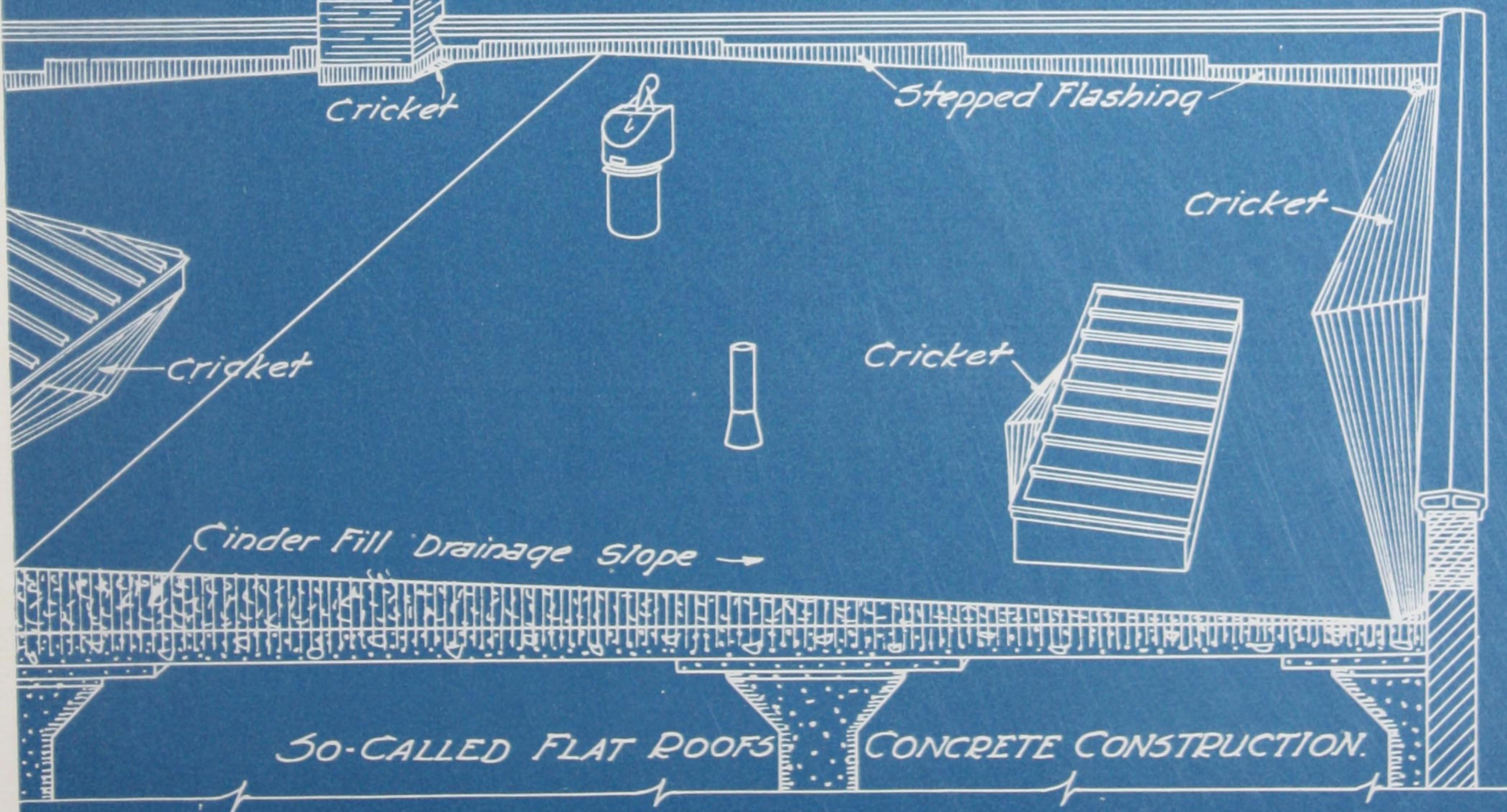
## THE SO-CALLED FLAT ROOF (2).



### LEVEL ROOFS      CONCRETE CONSTRUCTION SAVINGS CONCRETE CONSTRUCTION

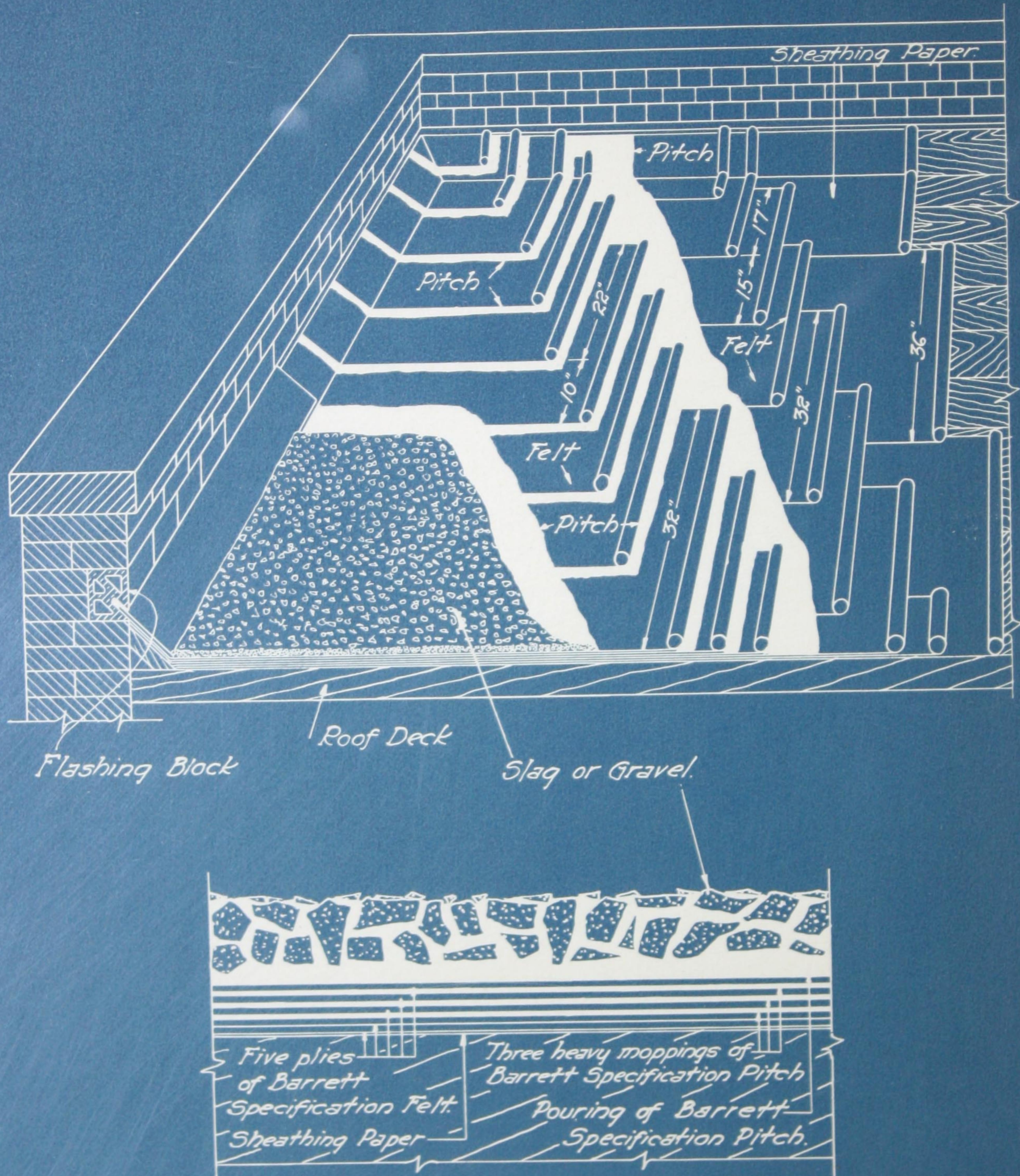
These savings will be noted by comparison with the perspective above which shows the level roof construction for the same roof problem.

- 1 - Elimination of all crickets.
- 2 - Elimination of all heavy fills over entire slab necessary for drainage slope. This means thinner roof slabs & consequently lighter columns & reinforcing throughout, the building.
- 3 - Elimination of stepped flashings. This means lower parapet walls as flashing can be set in horizontal line & a material saving of labor effected.
- 4 - Smaller drainage outlets for same roof areas.
- 5 - Drainage outlets are not limited to any particular location by roof slopes thus permitting minimum installation expense.



*Barrett* SPECIFICATION TYPE "AA" (5-Ply) ROOF  
FOR USE  
OVER BOARDS

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See volume #3 for details  
on Flashing & Flashing Block.

# BARRETT SPECIFICATION TYPE "AA" (5-Ply) ROOF FOR USE OVER BOARDS

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

THE roof deck shall be of seasoned lumber, smooth and free from loose boards, large cracks or knot holes, and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Lay one (1) thickness of sheathing paper or unsaturated felt weighing not less than five (5) pounds per one hundred (100) square feet, lapping the sheets at least one (1) inch.

**SECOND**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one and nail as often as is necessary to hold in place until remaining Felt is laid.

**THIRD**—Coat the entire surface uniformly with Specification Pitch.

**FOURTH**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet, so that in no place shall Felt touch Felt. Such nailing as is necessary shall be done so that all nails will be covered by not less than two (2) plies of Felt.

**FIFTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and fifty (150) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Co. of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*(CONDENSED SPECIFICATION)*

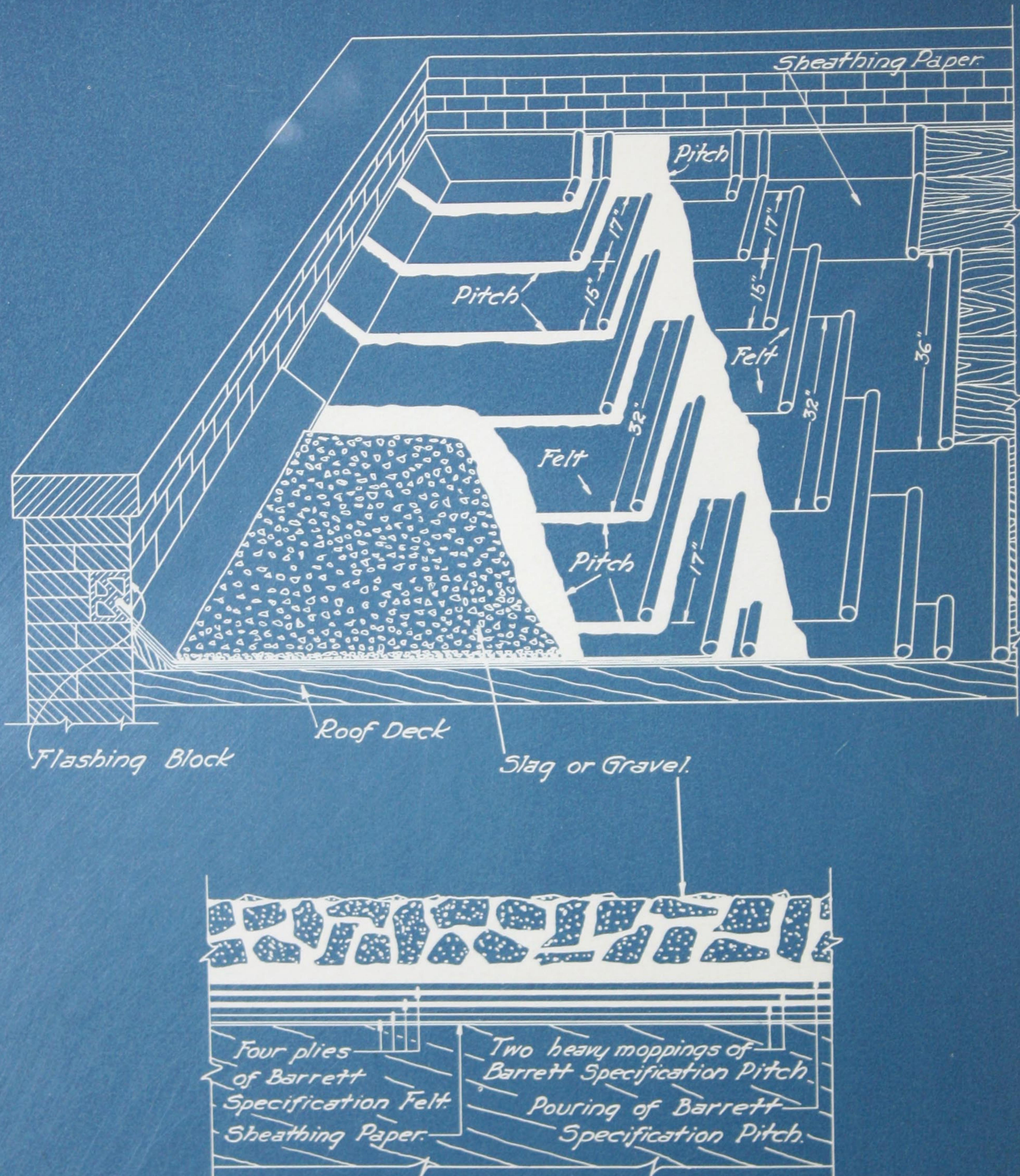
# BARRETT SPECIFICATION TYPE "AA" (5-Ply) ROOF FOR USE OVER BOARDS

*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "AA", laid in accordance with the Barrett Specification (for use over boards), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

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# BARRETT SPECIFICATION TYPE "A" (4-Ply) ROOF FOR USE OVER BOARDS

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

THE roof deck shall be of seasoned lumber, smooth and free from loose boards, large cracks or knot holes, and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Lay one (1) thickness of sheathing paper or unsaturated Felt, weighing not less than five (5) pounds per one hundred (100) square feet, lapping the sheets at least one (1) inch.

**SECOND**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, and nail as often as is necessary to hold in place until remaining Felt is laid.

**THIRD**—Coat the entire surface uniformly with Specification Pitch.

**FOURTH**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet so that in no place shall Felt touch Felt. Such nailing as is necessary shall be done so that all nails will be covered by not less than one (1) ply of Felt.

**FIFTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The felt shall be laid without wrinkles or buckles. Not less than one hundred and twenty-five (125) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—————  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

## BARRETT SPECIFICATION TYPE "A" (4-Ply) ROOF FOR USE OVER BOARDS

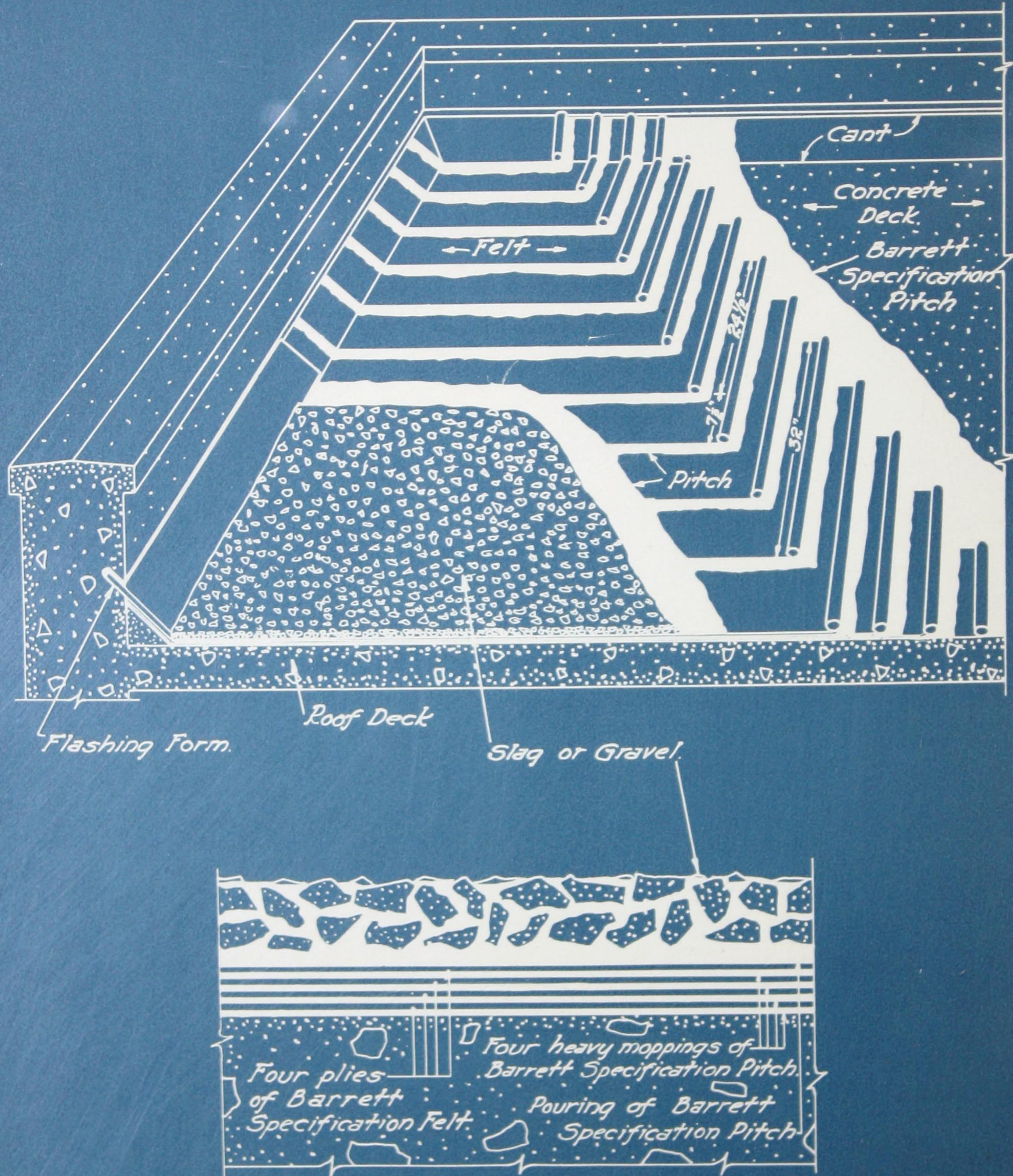
*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over boards), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—————  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "AA" (4-Ply) ROOF  
FOR USE  
OVER POURED CONCRETE

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# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER POURED CONCRETE

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the concrete uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay four (4) plies of Specification Tarred Felt, lapping each sheet twenty-four and one-half (24½) inches over preceding one, mopping with Specification Pitch the full twenty-four and one-half (24½) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

## (CONDENSED SPECIFICATION)

# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER POURED CONCRETE

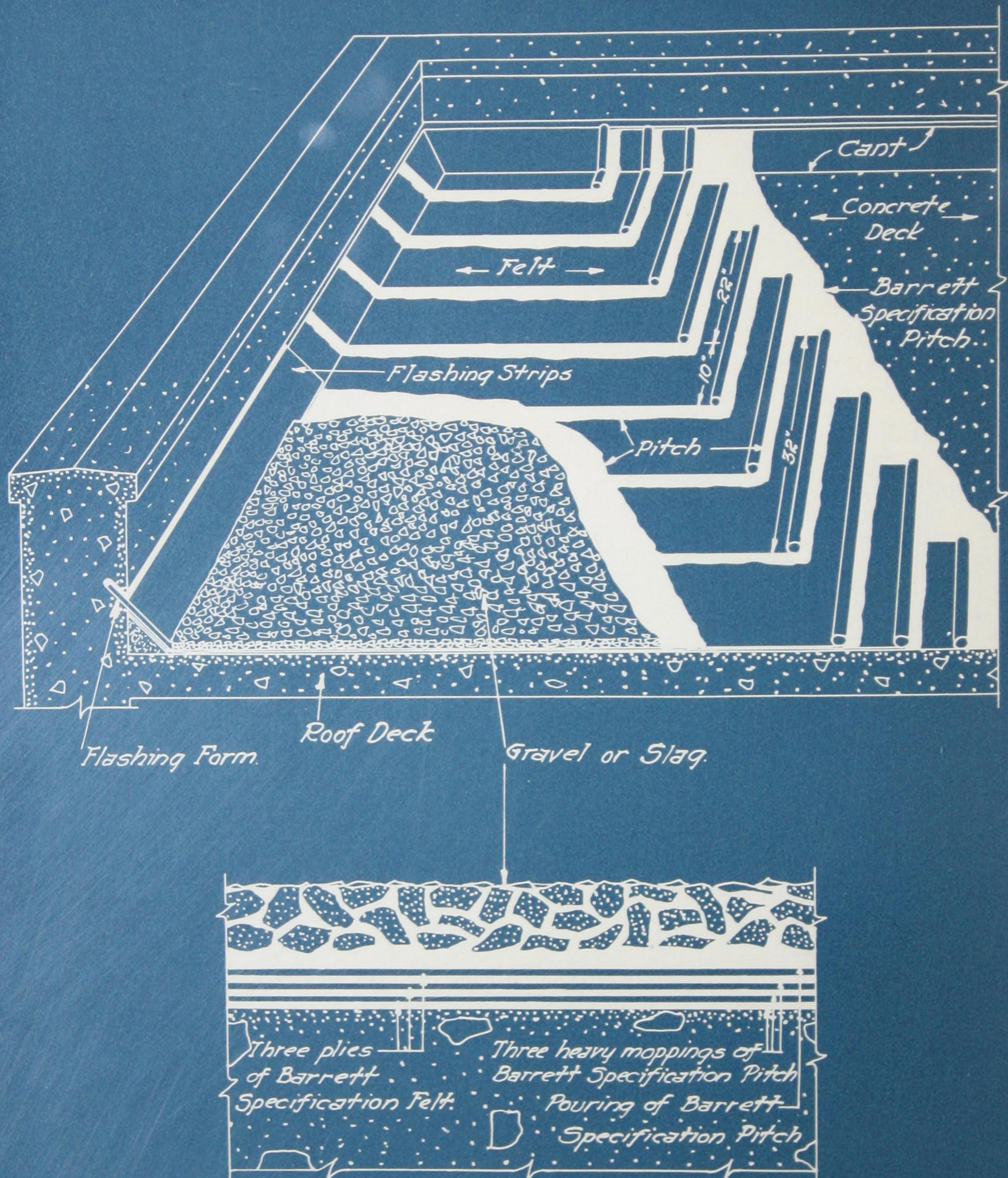
*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "AA", laid in accordance with the Barrett Specification (for use over concrete), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "A" (3-Ply) ROOF  
FOR USE  
OVER POURED CONCRETE

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# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER POURED CONCRETE

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the concrete uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and seventy-five (175) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—32—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

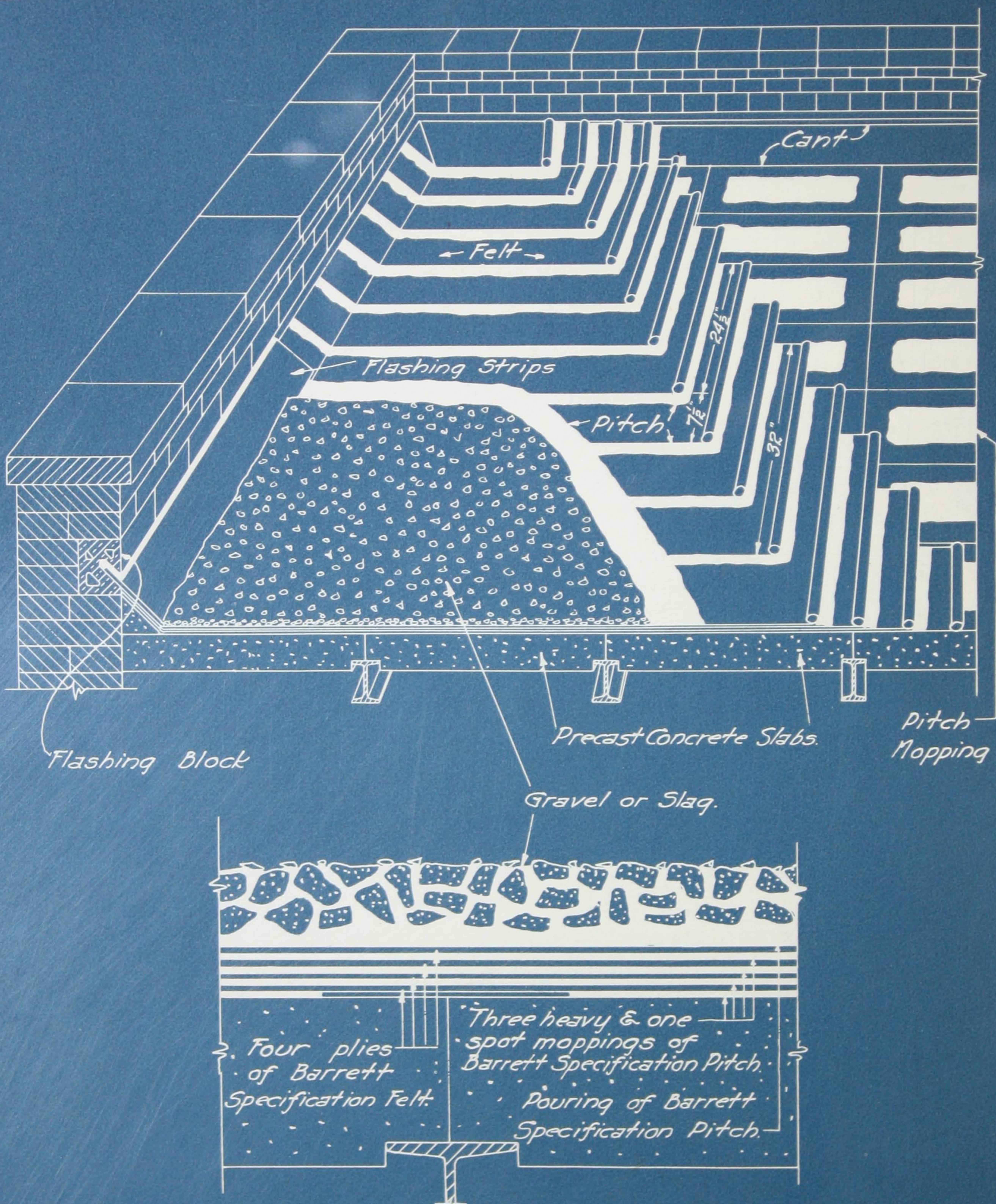
# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER POURED CONCRETE

*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over concrete), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—32—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.



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# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER PRECAST CONCRETE SLABS

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Spot or strip mop each slab with Specification Pitch, care being taken that pitch moppings are held back to within four (4) inches from the edge of each joint.

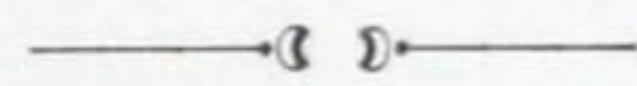
**SECOND**—Over the entire surface lay four (4) plies of Specification Tarred Felt, lapping each sheet twenty-four and one-half (24½) inches over preceding one, mopping with Specification Pitch the full twenty-four and one-half (24½) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.



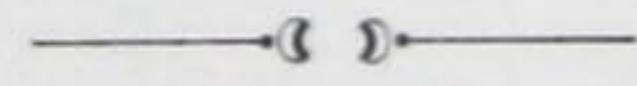
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*(CONDENSED SPECIFICATION)*

## BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER PRECAST CONCRETE SLABS

*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

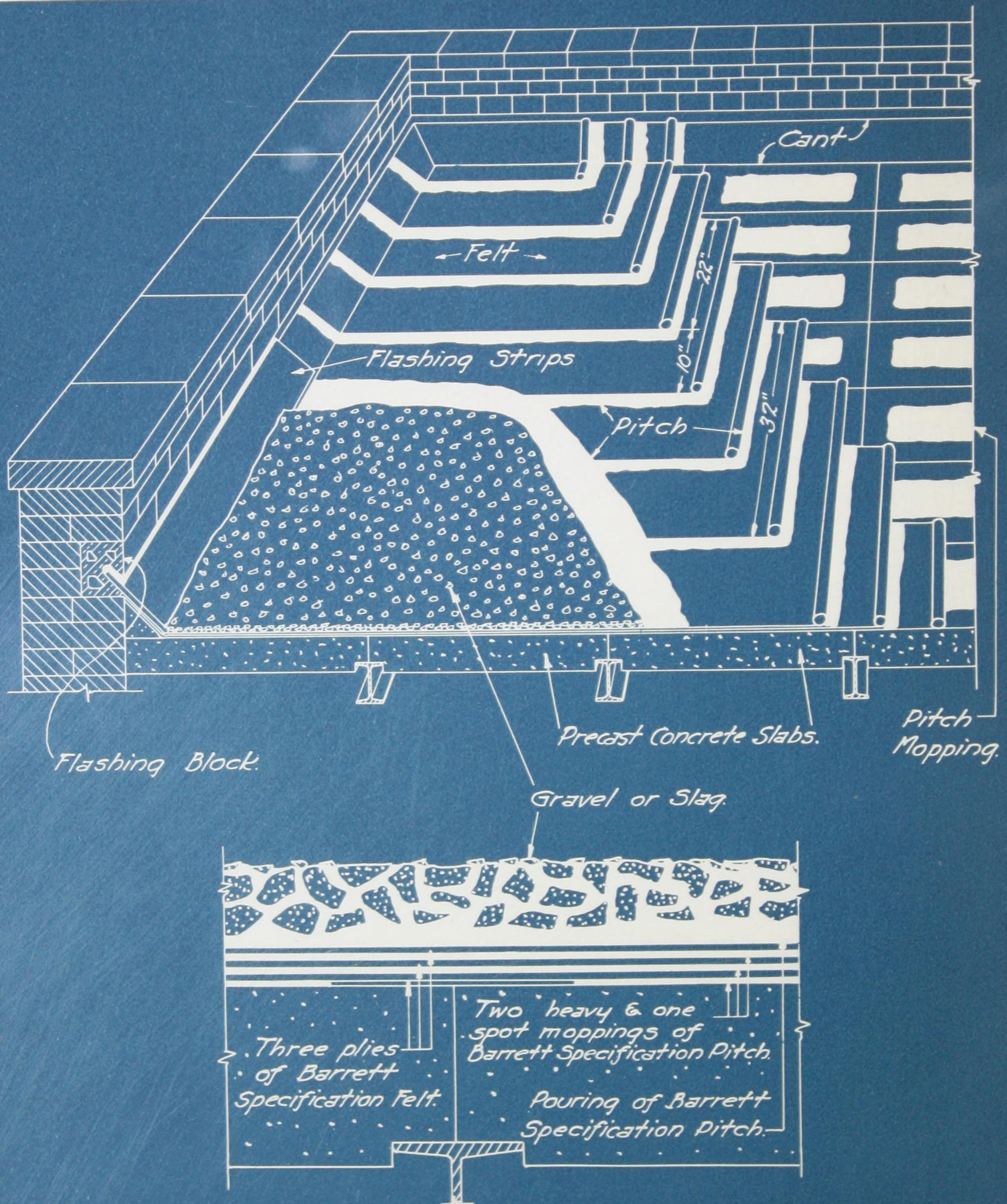
**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over precast concrete slabs), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.



This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "A" (3-Ply) ROOF  
FOR USE  
OVER PRECAST CONCRETE SLABS

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# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER PRECAST CONCRETE SLABS

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Spot or strip mop each slab with Specification Pitch, care being taken that pitch moppings are held back to within four (4) inches from the edge of each joint.

**SECOND**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and seventy-five (175) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—\*—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

## (CONDENSED SPECIFICATION)

# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER PRECAST CONCRETE SLABS

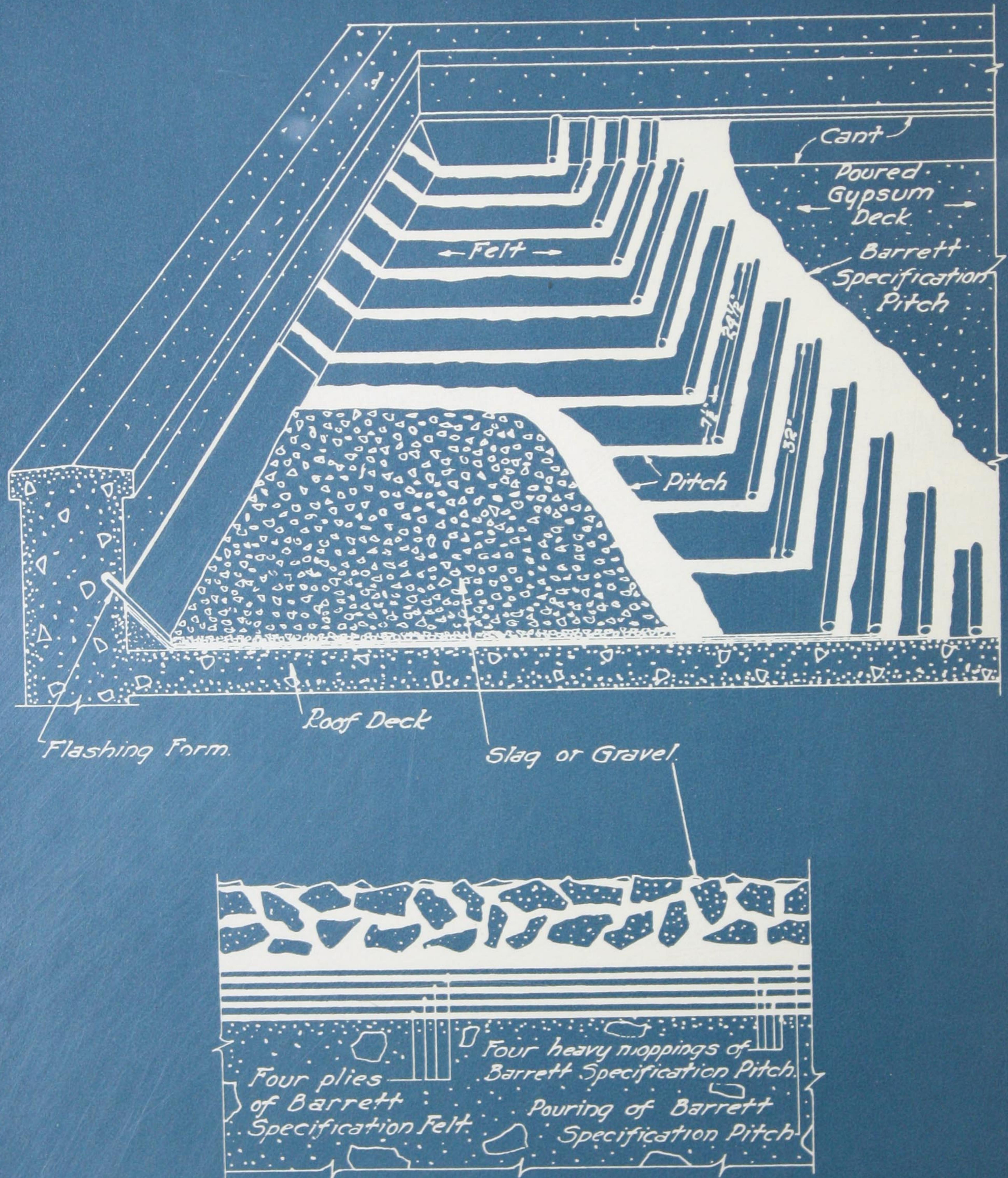
*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over precast concrete slabs), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—\*—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "AA" (4-Ply) ROOF  
FOR USE  
OVER POURED GYPSUM

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# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER POURED GYPSUM

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the gypsum uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay four (4) plies of Specification Tarred Felt, lapping each sheet twenty-four and one-half (24½) inches over preceding one, mopping with Specification Pitch the full twenty-four and one-half (24½) inches on each sheet, so that in no place shall Felt touch Felt. Each sheet shall be nailed three (3) inches from the upper edge, nails to be spaced not more than two (2) feet apart.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter (¼) inch to five-eighths (5/8) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—3—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER POURED GYPSUM

*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

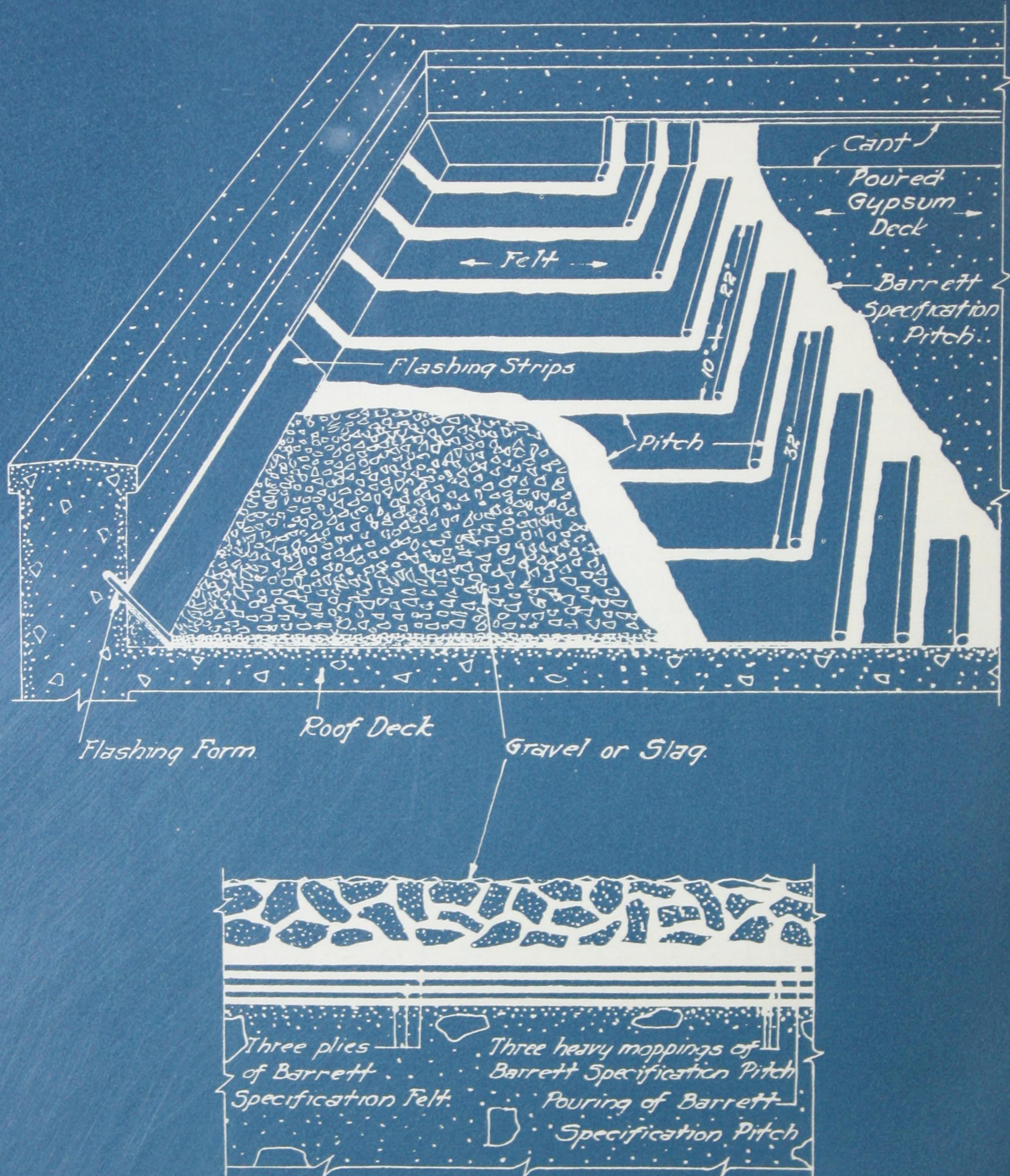
**ROOFING**—Shall be a Barrett Specification Roof, Type "AA", laid in accordance with the Barrett Specification (for use over poured gypsum), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

—3—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "A" (3-Ply) ROOF  
FOR USE  
OVER POURED GYPSUM

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See volume #3 for details  
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# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER POURED GYPSUM

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the gypsum uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet so that in no place shall Felt touch Felt. Each sheet shall be nailed six (6) inches from the upper edge, nails to be spaced not more than two (2) feet apart.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and seventy-five (175) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—3—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

## BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER POURED GYPSUM

*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

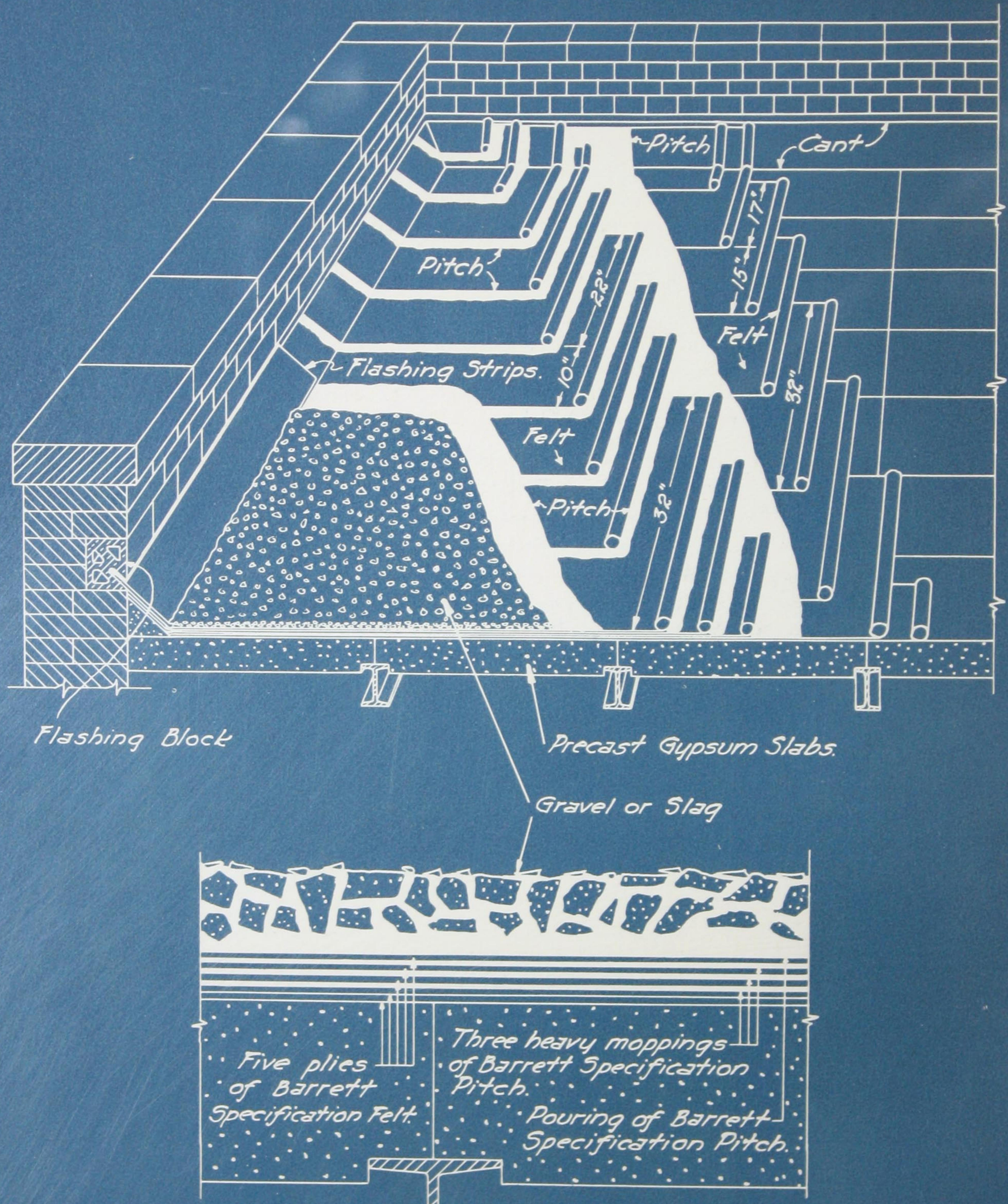
**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over poured gypsum), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—3—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "AA" (5-Ply) ROOF  
FOR USE  
OVER PRECAST GYPSUM SLABS

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# BARRETT SPECIFICATION TYPE "AA" (5-Ply) ROOF FOR USE OVER PRECAST GYPSUM SLABS

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

**A**LL joints between gypsum precast slabs shall be properly pointed.

**A** The roof deck shall be smooth, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one and nail as often as is necessary to hold in place until remaining Felt is laid.

**SECOND**—Coat the entire surface uniformly with Specification Pitch.

**THIRD**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet so that in no place shall Felt touch Felt. Each sheet shall be nailed six (6) inches from the upper edge, nails to be spaced not more than two (2) feet apart. Nails shall not exceed seven-eighths ( $\frac{7}{8}$ ) inch in length and shall be driven through flat tin disks one (1) inch or more in diameter.

**FOURTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and fifty (150) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

## BARRETT SPECIFICATION TYPE "AA" (5-Ply) ROOF FOR USE OVER PRECAST GYPSUM SLABS

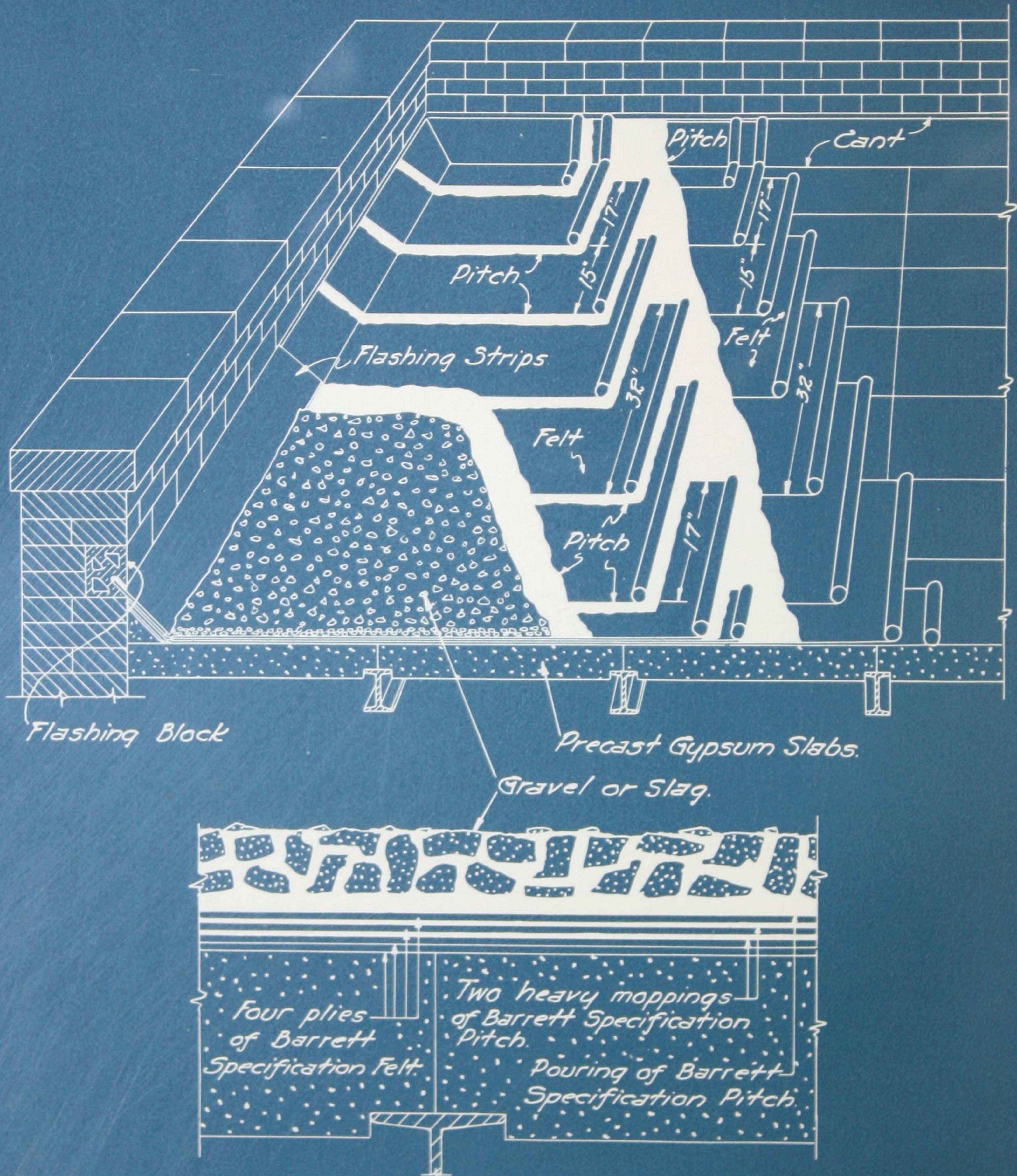
*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "AA", laid in accordance with the Barrett Specification (for use over precast gypsum slabs), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "A" (4-Ply) ROOF  
FOR USE  
OVER PRECAST GYPSUM SLABS

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on Flashing & Flashing Block.

# BARRETT SPECIFICATION TYPE "A" (4-Ply) ROOF FOR USE OVER PRECAST GYPSUM SLABS

*FOR INCLINES NOT EXCEEDING  
TWO (2) INCHES TO THE FOOT*

**A**LL joints between gypsum precast slabs shall be properly pointed.

**A** The roof deck shall be smooth, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, and nail as often as is necessary to hold in place until remaining Felt is laid.

**SECOND**—Coat the entire surface uniformly with Specification Pitch.

**THIRD**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet so that in no place shall Felt touch Felt. Each sheet shall be nailed six (6) inches from the upper edge, nails to be spaced not more than two (2) feet apart. Nails shall not exceed seven-eighths ( $\frac{7}{8}$ ) inch in length and shall be driven through flat tin disks one (1) inch or more in diameter.

**FOURTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and twenty-five (125) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

## (CONDENSED SPECIFICATION)

# BARRETT SPECIFICATION TYPE "A" (4-Ply) ROOF FOR USE OVER PRECAST GYPSUM SLABS

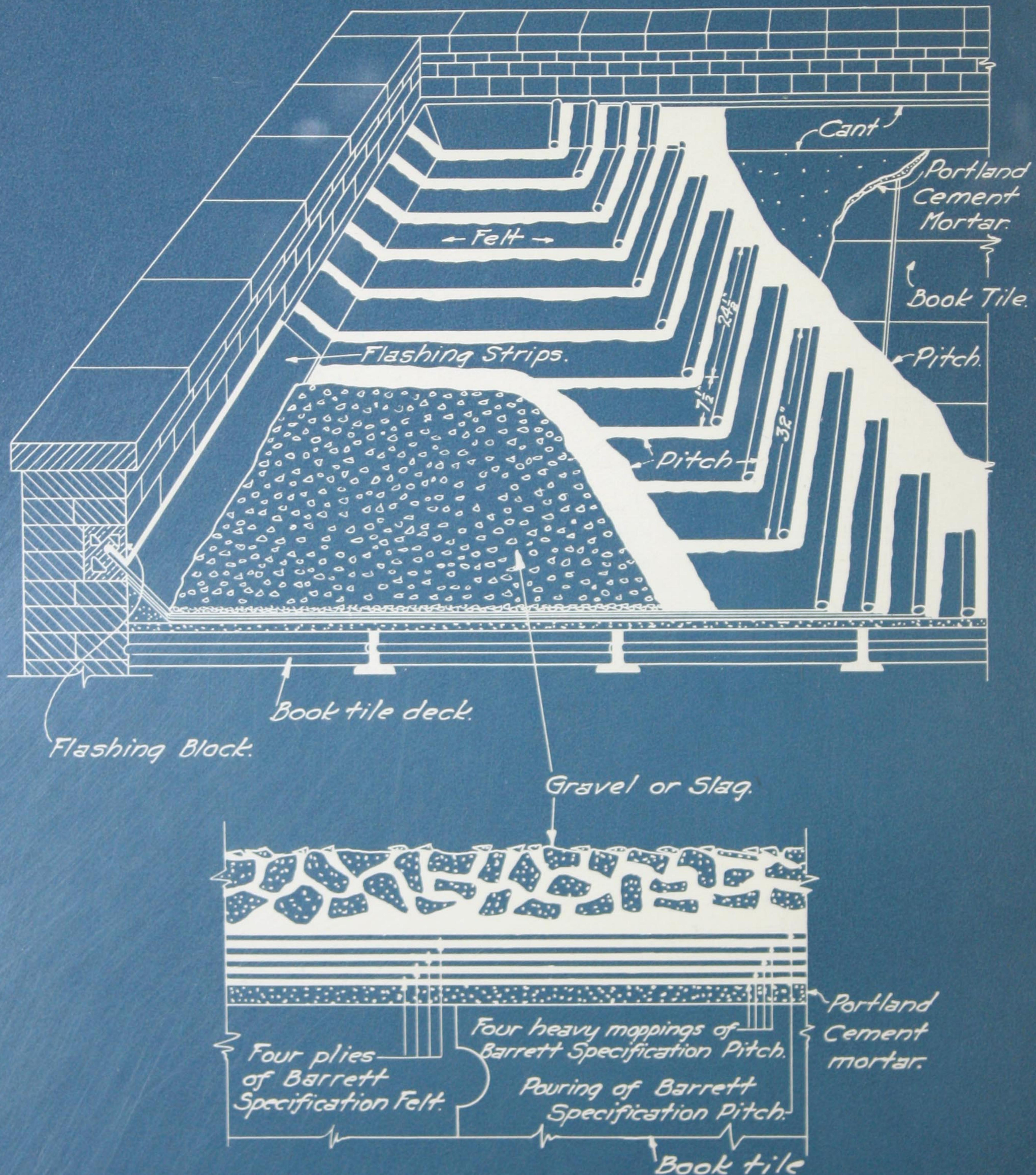
*FOR INCLINES NOT EXCEEDING TWO (2) INCHES TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over precast gypsum slabs), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—3—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "AA" (4-Ply) ROOF  
FOR USE  
OVER BOOK TILE

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# BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER BOOK TILE

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE surface of the book tile shall be finished off with not less than one-half ( $\frac{1}{2}$ ) inch of Portland cement mortar.

The roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the entire surface of the roof deck uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay four (4) plies of Specification Tarred Felt, lapping each sheet twenty-four and one-half ( $24\frac{1}{2}$ ) inches over preceding one, mopping with Specification Pitch the full twenty-four and one-half ( $24\frac{1}{2}$ ) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—32—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

(CONDENSED SPECIFICATION)

## BARRETT SPECIFICATION TYPE "AA" (4-Ply) ROOF FOR USE OVER BOOK TILE

*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

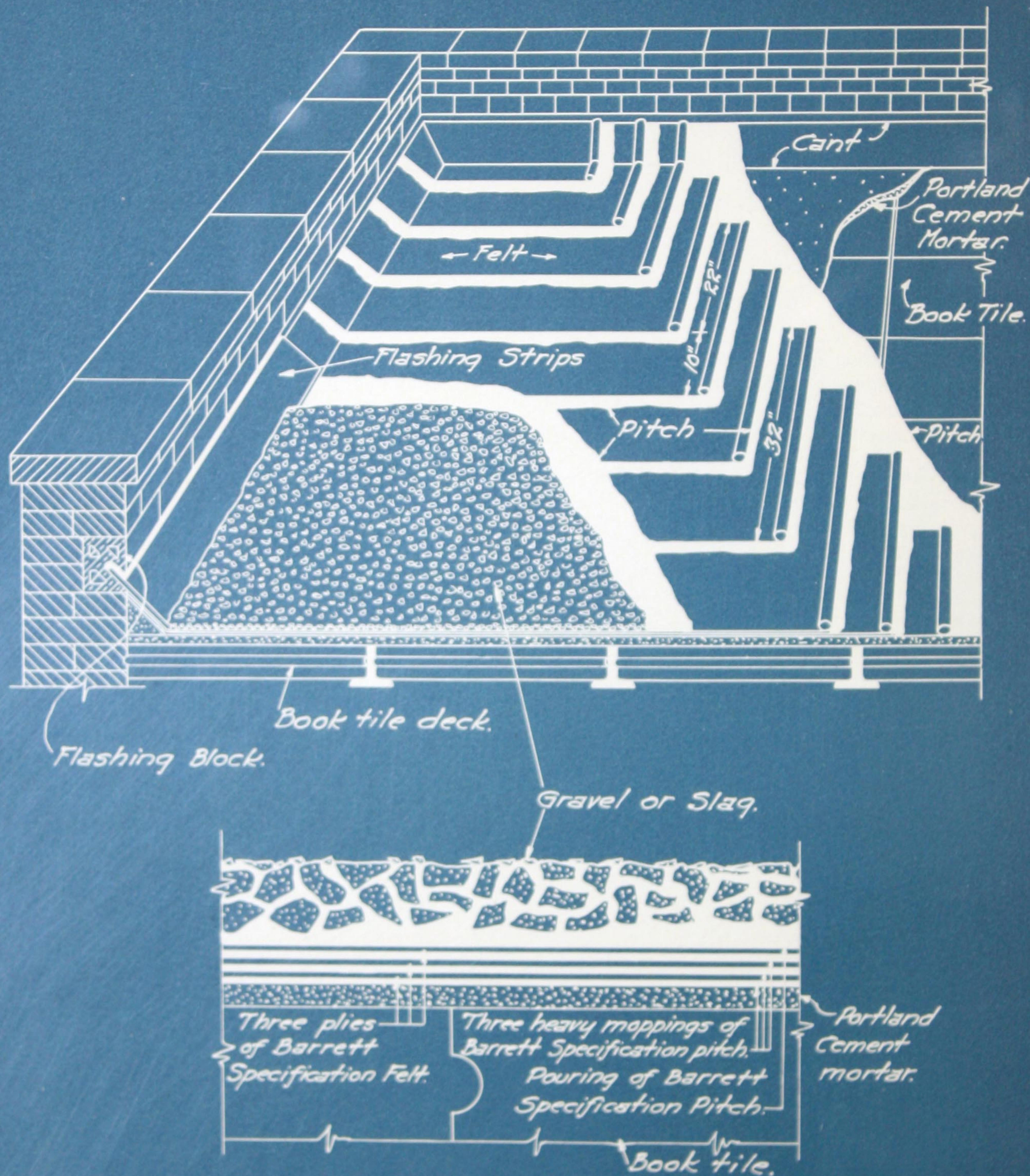
**ROOFING**—Shall be a Barrett Specification Roof, Type "AA", laid in accordance with the Barrett Specification (for use over book tile), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty (20) years, in accordance with Note No. 1 of said specification.

—32—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION TYPE "A" (3-Ply) ROOF  
FOR USE  
OVER BOOK TILE

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# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER BOOK TILE

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

THE surface of the book tile shall be finished off with not less than one-half ( $\frac{1}{2}$ ) inch of Portland cement mortar.

The roof deck shall be smooth, firm, dry and free from loose material. If roof deck is inclined, it shall be properly graded to outlets.

**FIRST**—Coat the entire surface of the roof deck uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay three (3) plies of Specification Tarred Felt, lapping each sheet twenty-two (22) inches over preceding one, mopping with Specification Pitch the full twenty-two (22) inches on each sheet so that in no place shall Felt touch Felt.

**THIRD**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter ( $\frac{1}{4}$ ) inch to five-eighths ( $\frac{5}{8}$ ) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than one hundred and seventy-five (175) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of ten (10) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 10-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—32—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*(CONDENSED SPECIFICATION)*

# BARRETT SPECIFICATION TYPE "A" (3-Ply) ROOF FOR USE OVER BOOK TILE

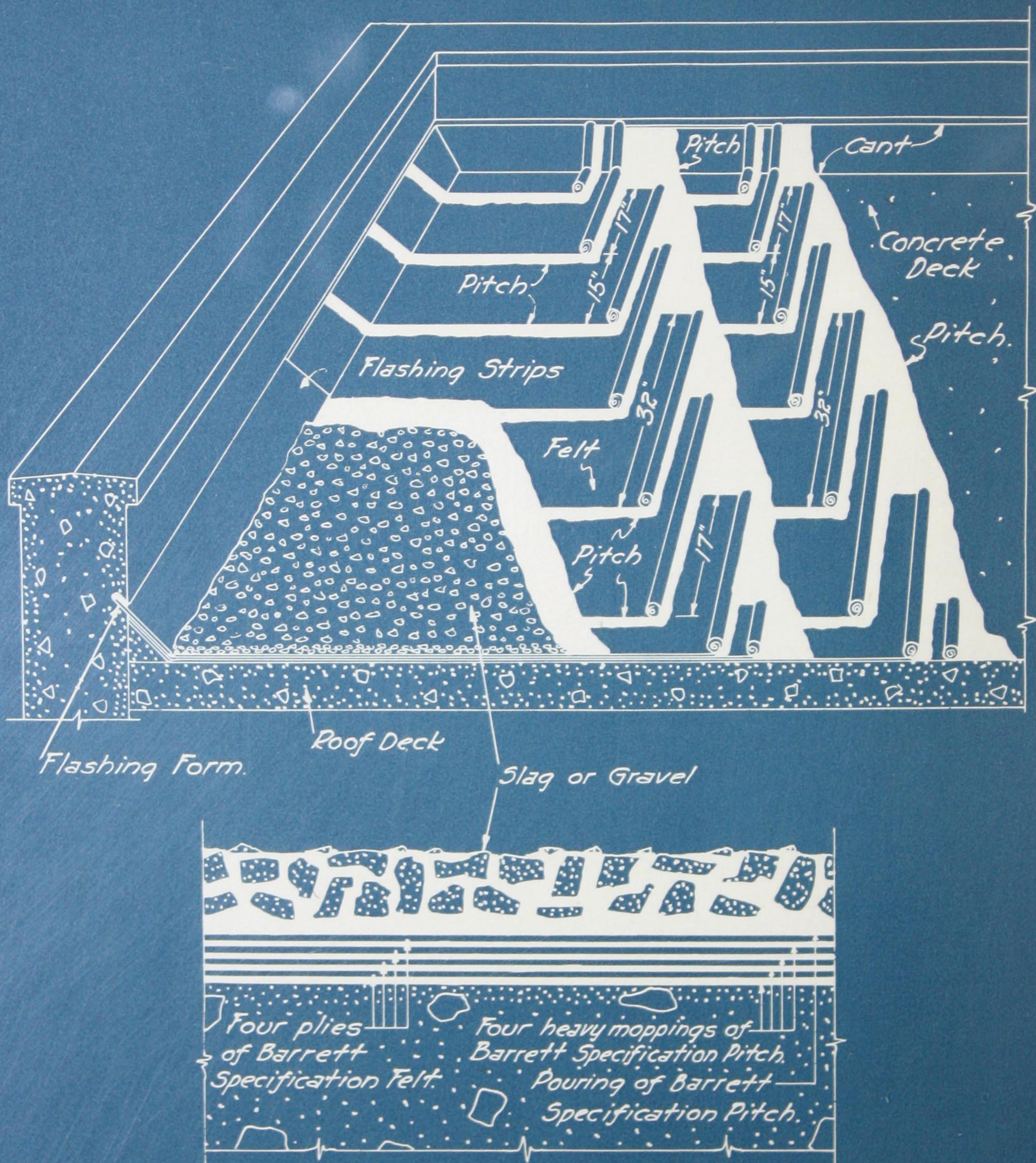
*FOR INCLINES NOT EXCEEDING ONE (1) INCH TO THE FOOT*

**ROOFING**—Shall be a Barrett Specification Roof, Type "A", laid in accordance with the Barrett Specification (for use over book tile), by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for ten (10) years, in accordance with Note No. 1 of said specification.

—32—  
This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION (4-Ply) ROOF  
FOR USE OVER  
LEVEL SURFACE (POURED CONCRETE)

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# BARRETT SPECIFICATION (4-Ply) ROOF FOR USE OVER LEVEL SURFACE (POURED CONCRETE)

*FOR INCLINES NOT EXCEEDING  
ONE-QUARTER (1/4) INCH TO THE FOOT*

THE roof deck shall be smooth, firm, dry and free from loose material.

**FIRST**—Coat the concrete uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Coat the entire surface uniformly with Specification Pitch.

**FOURTH**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**FIFTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter (1/4) inch to five-eighths (5/8) inch in size, dry and free from dirt.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

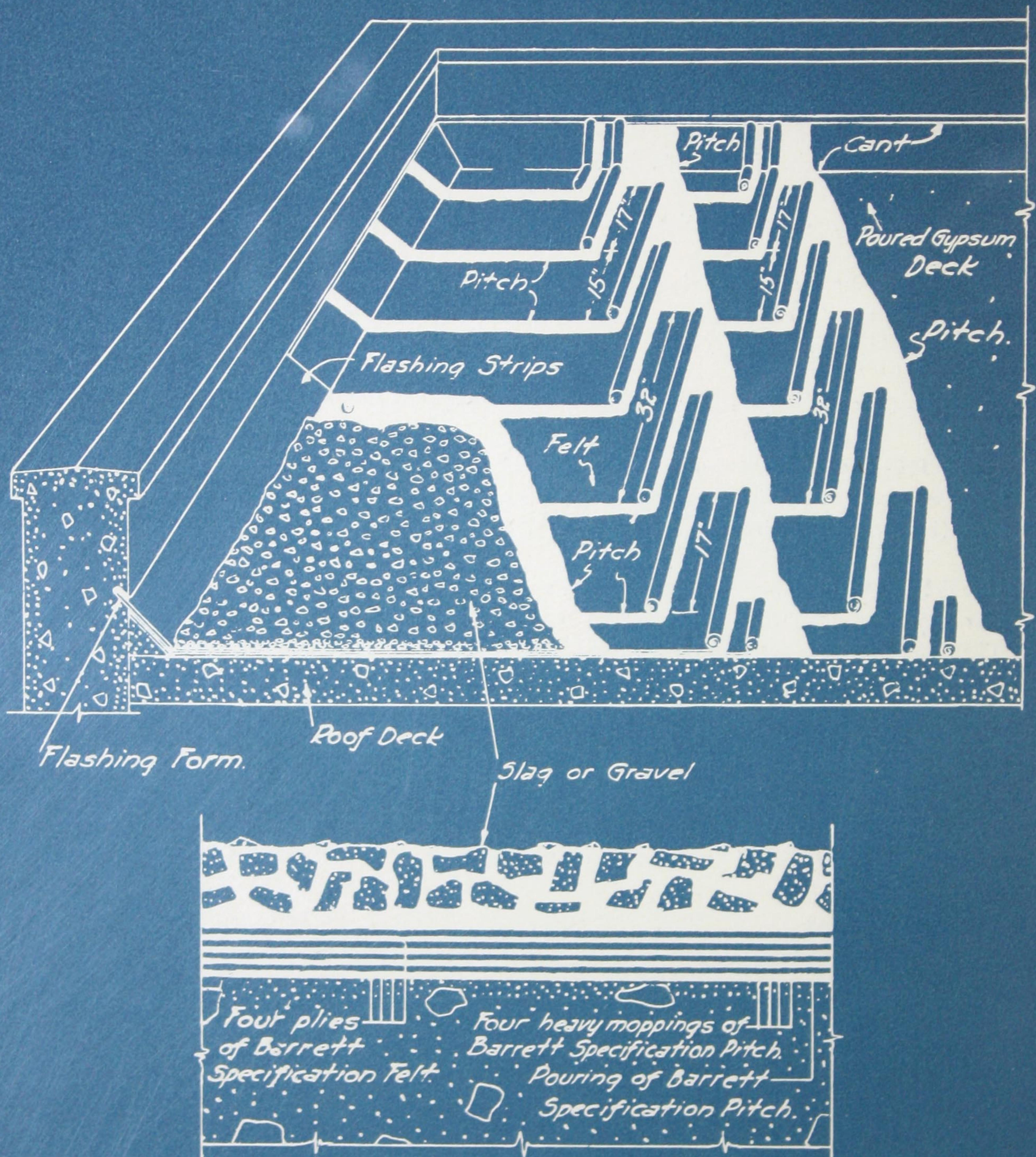
**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

—32—

This specification does not include flashings. See Volume No. 3 for Flashing Specification.

*Barrett* SPECIFICATION (4-Ply) ROOF  
FOR USE OVER  
LEVEL SURFACE (POURED GYPSUM)

CAUTION:  
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pages. Mail post  
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See volume #3 for details  
on Flashing & Flashing Form.

# BARRETT SPECIFICATION (4-Ply) ROOF FOR USE OVER LEVEL SURFACE (POURED GYPSUM)

*FOR INCLINES NOT EXCEEDING  
ONE-QUARTER (1/4) INCH TO THE FOOT*

**T**HE roof deck shall be smooth, firm, dry and free from loose material.

**FIRST**—Coat the gypsum uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Coat the entire surface uniformly with Specification Pitch.

**FOURTH**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**FIFTH**—Over the entire surface pour from a dipper a uniform coating of Specification Pitch, into which, while hot, embed not less than four hundred (400) pounds of gravel or three hundred (300) pounds of slag for each one hundred (100) square feet. The gravel or slag shall be from one-quarter (1/4) inch to five-eighths (5/8) inch in size, dry and free from dirt.

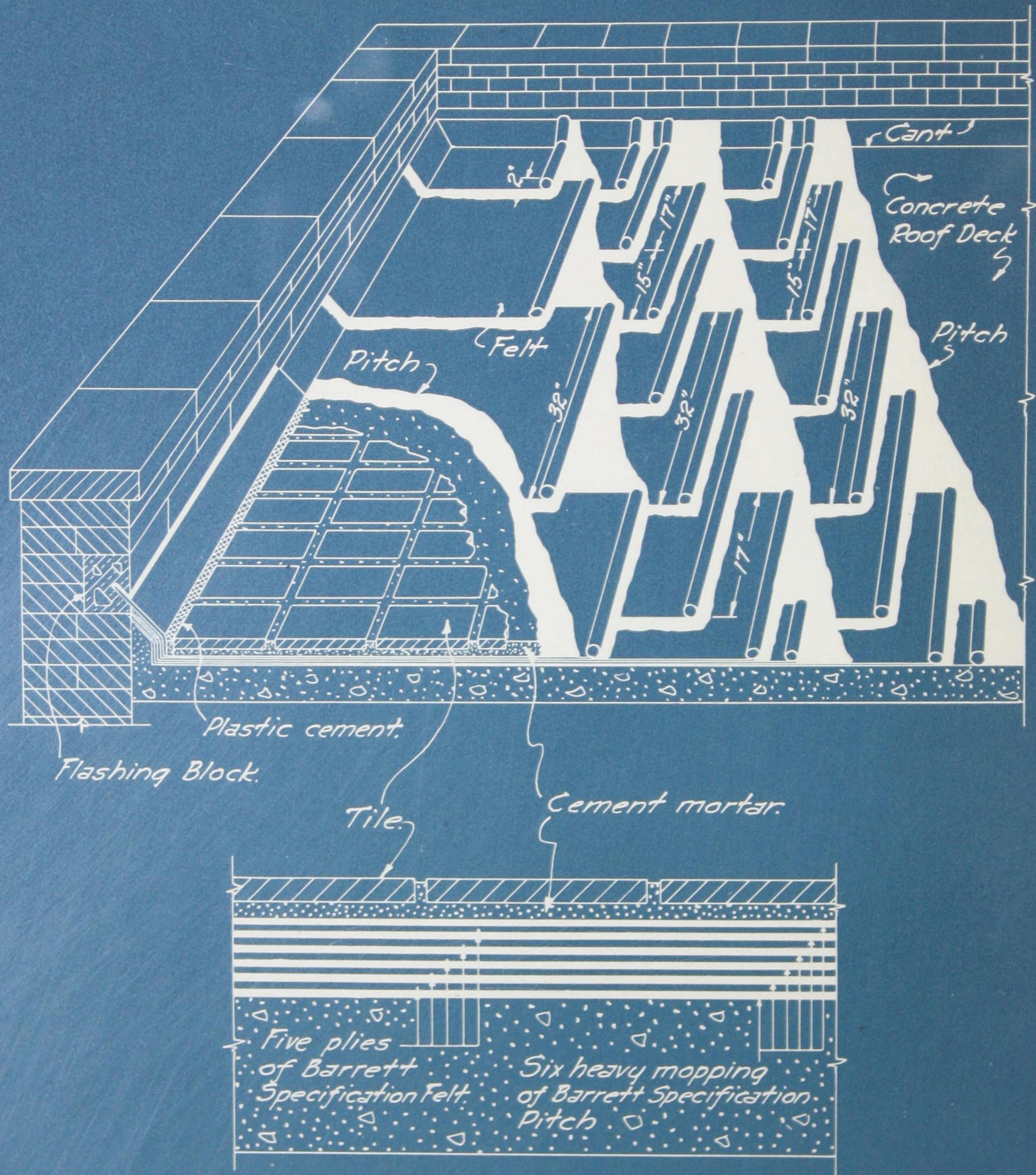
**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roof shall be applied by a roofing contractor approved by The Barrett Company. He shall furnish The Barrett Company's Surety Bond Guaranty issued by the U. S. Fidelity and Guaranty Company of Baltimore, covering a period of twenty (20) years from date of completion, in accordance with Note No. 1.

**NOTE No. 1.** The Barrett Company will give its 20-Year Guaranty Bond on all jobs of five thousand (5000) square feet or more, in the United States and Canada, where its inspection service is available, providing the roof is laid by a roofing contractor approved by The Barrett Company, in strict accordance with the above specification and subject to Barrett inspection and approval.

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This specification does not include flashings. See Volume No. 3 for Flashing Specification.



See volume #3 for details  
on Flashing & Flashing Block.

# BARRETT SPECIFICATION (5-Ply) ROOF FOR USE OVER CONCRETE UNDER PROMENADE TILE SURFACE

*FOR INCLINES NOT EXCEEDING  
ONE (1) INCH TO THE FOOT*

**T**HE roof deck shall be smooth, firm, dry, properly graded to outlets, and free from loose material.

**FIRST**—Coat the concrete uniformly with Specification Pitch.

**SECOND**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**THIRD**—Coat the entire surface uniformly with Specification Pitch.

**FOURTH**—Over the entire surface lay two (2) plies of Specification Tarred Felt, lapping each sheet seventeen (17) inches over preceding one, mopping with Specification Pitch the full seventeen (17) inches on each sheet, so that in no place shall Felt touch Felt.

**FIFTH**—Coat the entire surface uniformly with Specification Pitch.

**SIXTH**—Immediately preceding the laying of the tile, thoroughly clean the surface of the roof and mop same with Specification Pitch, into which, while hot, embed one (1) layer of Specification Felt, lapping each sheet two (2) inches over preceding one. Over this surface and immediately preceding the laying of the tile, spread a heavy uniform coating of Specification Pitch. No more of the roof surface shall be covered with the final or last ply of Felt and mopping of Pitch than is covered at the same time with tile and is necessary to allow for proper connections.

Over the Felt and Pitch roofing thus laid, 1" x 6" x 9" vitrified clay tile (approved by the architect) shall be set in not less than three-fourths ( $\frac{3}{4}$ ) inch of Portland cement mortar (1 to 3 mix) and joints grouted full with Portland cement mortar (1 to 2 mix). The tile shall be laid to show three-sixteenths ( $\frac{3}{16}$ ) inch to one-fourth ( $\frac{1}{4}$ ) inch joints. Expansion joints three-fourths ( $\frac{3}{4}$ ) inch wide filled with a plastic mixture (approved by the architect) shall be provided between the tile and all flashings, and either metal or mastic expansion joints shall be provided throughout the roof surface as may be necessary to take care of expansion. All expansion joints shall extend from the top of the tile through the cement mortar to the Felt and Pitch water-proofing.

**GENERAL**—The Felt shall be laid without wrinkles or buckles. Not less than two hundred (200) pounds of Pitch shall be used for constructing each one hundred (100) square feet of completed roof, and the Pitch shall not be heated above four hundred (400) degrees Fahrenheit.

The roofing contract is to be awarded to a responsible roofing contractor, who has had experience in this kind of work, and who can refer to similar roofing where his work has proved watertight.

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This specification does not include flashings. See Volume No. 3 for Flashing Specification.

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